



DOCKET NO: I0168-7076.19

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Anil D. Jha et al.  
Serial No: 10/712,621  
Confirmation No: 2148  
Filed: November 13, 2003  
For: WATER TREATMENT SYSTEM AND METHOD  
Examiner: not yet assigned  
Art Unit: 1723

**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 12<sup>th</sup> day of April, 2004.

  
\_\_\_\_\_  
Jeanne W. Chub

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith are the following documents:

- ☒ Information Disclosure Statement, PTO-1449 and Cited References
- ☒ Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 395-7000.

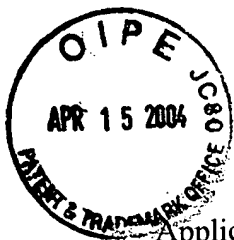
A check is not enclosed. If a fee is required, the Commissioner is hereby authorized to charge Deposit Account No. 50/0214. A duplicate of this sheet is enclosed.

Respectfully submitted,  
*Anil D. Jha, et al., Applicants*

By: 

\_\_\_\_\_  
Peter C. Lando, Reg. No. 34,654  
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Date: April 12, 2004




IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Jeanne W. Chub

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**STATEMENT FILED PURSUANT TO THE DUTY OF  
DISCLOSURE UNDER 37 CFR §§1.56, 1.97 AND 1.98**

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

**PART I: Compliance with 37 C.F.R. §1.97**

This Information Disclosure Statement has been filed before the mailing date of a first Office Action on the merits in the above-identified case.

No fee or certification is required.

**PART II: Information Cited**

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant hereby makes the following additional information of record in the above-identified application.

The Applicant would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventors</u>	<u>Title of Application</u>
10/712,674	November 13, 2003	Frederick Wilkins et al.	Water Treatment System and Method
10/712,166	November 13, 2003	Anil D. Jha et al.	Water Treatment System and Method
10/712,250	November 13, 2003	Gary Ganzi et al.	Water Treatment System and Method
10/712,248	November 13, 2003	Evgeniva Freydina et al.	Water Treatment System and Method
10/712,163	November 13, 2003	Frederick Wilkins et al.	Water Treatment System and Method
10/712,162	November 13, 2003	Frederick Wilkins et al.	Water Treatment System and Method
10/712,685	November 13, 2003	Evgeniva Freydina et al.	Water Treatment System and Method

PART III: Explanation of Non-English Language References and Remarks Concerning Other Information Cited

The following is a concise explanation of the relevance of each non-English language reference listed on the attached form PTO-1449 (modified):

The non-English language reference appears to relate to an electrodeionization device, water treatment system and/or component thereof.

DE 4418812 is directed to single and multiple electrolytic cells and arrays of such cells for deionizing aqueous solutions.

DE 1 201 055 is directed to heterogeneous membranes.

DE 199 42 347 is directed to electrochemically-regeneratable ion-exchanger for use in water purification comprises a conductive electrode coated with a conductive polymer.

JP 07-155750 is directed to a hot-water sterilization method for water purifier. An English Abstract is enclosed.

JP 07-265865 is directed to an electrolytic deionized water producing device. An English Abstract is enclosed.

JP 09-253643 is directed to a deionized water making method. An English Abstract is enclosed.

JP 2001-079358 is directed to electrically deionizing device. An English Abstract is enclosed.

JP 2001-079553 is directed to a method for packing ion exchanger in electric deionizer, and electric deionizer. An English Abstract is enclosed.

JP 2001-104960 is directed to an electric deionizing apparatus. An English Abstract is enclosed.

JP 2001-113137 is directed to production device of high purity of water and production method of high purity of water. An English Abstract is enclosed.

JP 2001-113279 is directed to electro-deionizing apparatus. An English Abstract is enclosed.

JP 2001-113280 is directed to electro-deionizing apparatus. An English Abstract is enclosed.

JP 2001-121152 is directed to an electric desalting apparatus. An English Abstract is enclosed.

“Déminéralisation De Solutions Électrolytiques Diluées. Analyse Comparative Des Performances De Différents Procédés D'Électrodialyse” appears to be directed to electrodeionization devices, water treatment systems, and/or components thereof.

Russian Patent No. 216622, dated 11/21/1972 appears to be directed to electrodeionization devices, water treatment systems, and/or components thereof.

Russian Patent No. 990256, dated 28 January, 1983 appears to be directed to electrodeionization devices, water treatment systems, and/or components thereof.

Russian Patent No. 1118389A, dated 15 October, 1984 appears to be directed to electrodeionization devices, water treatment systems, and/or components thereof.

WO95/32791 is directed to single and multiple electrolytic cells and arrays of such cells for deionizing aqueous solutions. An English Abstract is enclosed.

WO97/46491 is directed to a process for producing deionized water by electrical deionization technique. An English Abstract is enclosed.

WO97/46492 is directed to a process for producing deionized water by electrical deionization technique. An English Abstract is enclosed.

WO01/49397 is directed to an automatic device for purifying drinking water. An English Abstract is enclosed.

The following are remarks concerning the other information cited:

The references appear to relate to electrodeionization devices, water treatment system and/or components thereof.

PART IV: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

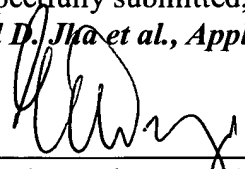
By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

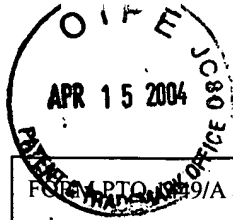
An early and favorable action is hereby requested.

Respectfully submitted,  
*Anil D. Jha et al., Applicants*

By:   
Peter C. Lando, Reg. No. 34,654  
Elias Domingo, Reg. No. 52,827  
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One Main Street  
Cambridge, Massachusetts 02142  
Tel. (617) 395-7000

Docket No.: I0168-7076.19

Dated: April 12, 2004



<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		APPLICATION NO.: 10/712,621	ATTY. DOCKET NO.: I0168-7076.19
		FILING DATE: November 13, 2003	CONFIRMATION NO.: 2148
		APPLICANT: Anil D. Jha et al.	
		GROUP ART UNIT: 1723	EXAMINER: not assigned yet
Sheet	1	of	8

#### U.S. PATENT DOCUMENTS

Examiner's Initials#	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
		Re.35,741		Oren et al.	03/10/98
		2,514,415		Rasch	07/11/50
		2,681,319		Bodamer	06/15/54
		2,681,320		Bodamer	06/15/54
		2,788,319		Pearson	04/09/57
		2,794,777		Pearson	06/04/57
		2,815,320		Kollsman	12/03/57
		2,854,394		Kollsman	09/30/58
		2,923,674		Kressman	02/02/60
		2,943,989		Kollsman	07/05/60
		3,014,855		Kressman	12/26/61
		3,074,864		Gayowski	01/22/63
		3,099,615		Kollsman	07/30/63
		3,148,687		Dosch	09/15/64
		3,149,061		Parsi	09/15/64
		3,149,062		Gottschal et al.	09/15/64
		3,165,460		Zang et al.	01/12/65
		3,291,713		Parsi	12/13/66
		3,330,750		McRae et al.	07/11/67
		3,341,441		Giuffrida et al.	09/12/67
		3,375,208		Duddy	03/26/68
		3,627,703		Kojima et al.	12/14/71
		3,645,884		Gilliland	02/29/72
		3,686,089		Korngold	08/22/72
		3,755,135		Johnson	08/28/73
		3,869,376		Tejeda	03/04/75
		3,870,033		Faylor et al.	03/11/75
		3,876,565		Takashima et al.	04/08/75
		3,989,615		Kiga et al.	11/02/76
		4,032,452		Davis	06/28/77
		4,033,850		Kedem et al.	07/05/77
		4,089,758		McAloon	05/16/78
		4,116,889		Chlanda et al.	09/26/78
		4,119,581		Rembaum et al.	10/10/78
		4,130,473		Eddleman	12/19/78
		4,153,761		Marsh	05/08/79
		4,167,551		Tamura et al.	09/11/79

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

FILING DATE: November 13, 2003

CONFIRMATION NO.: 2148

APPLICANT: Anil D. Jha et al.

GROUP ART UNIT: 1723

EXAMINER: not assigned yet

of 8

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		Number	Kind Code		
		4,191,811		Hodgdon	03/04/80
		4,197,206		Karn	04/08/80
		4,216,073		Goldstein	08/05/80
		4,217,200		Kedem et al.	08/12/80
		4,226,688		Kedem et al.	10/07/80
		4,228,000		Hoeschler	10/14/80
		4,294,933		Kihara et al.	10/13/81
		4,298,442		Giuffrida	11/03/81
		4,321,145		Carlson	03/23/82
		4,330,654		Ezzell et al.	05/18/82
		4,358,545		Ezzell et al.	11/09/82
		4,374,232		Davis	02/15/83
		4,430,226		Hedge et al.	02/07/84
		4,465,573		O'Hare	08/14/84
		4,473,450		Nayak et al.	09/25/84
		4,505,797		Hodgdon et al.	03/19/85
		4,574,049		Pittner	03/04/86
		4,614,576		Goldstein	09/30/86
		4,632,745		Giuffrida et al.	12/30/86
		4,636,296		Kunz	01/13/87
		4,661,411		Martin et al.	04/28/87
		4,671,863		Tejeda	06/09/87
		4,687,561		Kunz	08/18/87
		4,702,810		Kunz	10/27/87
		4,707,240		Parsi et al.	11/17/87
		4,747,929		Siu et al.	05/31/88
		4,747,955		Kunin	05/31/88
		4,751,153	B1	Roth	06/14/88
		4,753,681		Giuffrida et al.	06/28/88
		4,770,793		Treffry-Goatley et al.	09/13/88
		4,804,451		Palmer	02/14/89
		4,849,102		Latour et al.	07/18/89
		4,871,431		Parsi	10/03/89
		4,872,958		Suzuki et al.	10/10/89
		4,925,541		Giuffrida et al.	05/15/90
		4,931,160		Giuffrida	06/05/90
		4,956,071		Giuffrida et al.	09/11/90
		4,964,970		O'Hare	10/23/90

<b>FORM PTO-1449/A and B (Modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	APPLICATION NO.: 10/712,621		ATTY. DOCKET NO.: I0168-7076.19	
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Sheet 3 of 8

APR 15 2004

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Examiner's Initials#	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYY
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		4,983,267		Moeglich et al.	01/08/91
		5,026,465		Katz et al.	06/25/91
		5,030,672		Hann et al.	07/09/91
		5,066,375		Parsi et al.	11/19/91
		5,066,402		Anselme et al.	11/19/91
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		5,082,472		Mallouk et al.	01/21/92
		5,084,148		Kaczur et al.	01/28/92
		5,092,970		Kaczur et al.	03/03/92
		5,106,465		Kaczur et al.	04/21/92
		5,116,509		White	05/26/92
		5,120,416		Parsi et al.	06/09/92
		5,126,026		Chlanda	06/30/92
		5,128,043		Wildermuth	07/07/92
		5,154,809		Oren et al.	10/13/92
		5,166,220		McMahon	11/24/92
		5,176,828		Proulx	01/05/93
		5,196,115		Andelman	03/23/93
		5,203,976		Parsi et al.	04/20/93
		5,211,823		Giuffrida et al.	05/18/93
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		5,434,020		Cooper	07/18/95
		5,444,031		Hayden	08/22/95



FORM PTO-1449/A and B (Modified)		APPLICATION NO.: 10/712,621	ATTY. DOCKET NO.: I0168-7076.19
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Sheet	APR 13 2004	of	8

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		5,458,787		Rosin et al.	10/17/95
		5,460,725		Stringfield	10/24/95
		5,460,728		Klomp et al.	10/24/95
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		5,503,729		Batchelder et al.	04/02/96
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		5,547,551		Bahar et al.	08/20/96
		5,558,753		Gallagher et al.	09/24/96
		5,580,437		Trainham, III et al.	12/03/96
		5,584,981		Turner et al.	12/17/96
		5,593,563		Denoncourt et al.	01/14/97
		5,599,614		Bahar et al.	02/04/97
		5,670,053		Collentro et al.	09/23/97
		5,679,228		Batchelder et al.	10/21/97
		5,679,229		Goldstein et al.	10/21/97
		5,714,521		Kedem et al.	02/03/98
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		5,759,373		Terada et al.	06/02/98
		5,762,774		Tessier	06/09/98
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		5,925,240		Wilkins et al.	07/20/99
		5,954,935		Neumeister et al.	09/21/99
		5,961,805		Terada et al.	10/05/99
		5,980,716		Horinouchi et al.	11/09/99
		6,056,878		Tessier et al.	05/02/00
		6,099,716		Molter et al.	08/08/00

FORM PTO-1449/A and B (Modified)		APPLICATION NO.: 10/712,621	ATTY. DOCKET NO.: I0168-7076.19
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Sheet	APR 15 2004	of	8

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		Number	Kind Code		
		6,149,788		Tessier et al.	11/21/00
		6,187,162	B1	Mir	02/13/01
		6,190,528	B1	Li et al.	02/20/01
		6,190,558	B1	Robbins	02/20/01
		6,193,869	B1	Towe et al.	02/27/01
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		6,607,647		Wilkins et al.	08/19/03
		6,649,037		Liang et al.	11/18/03

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

FILING DATE: November 13, 2003

CONFIRMATION NO.: 2148

APPLICANT: Anil D. Jha et al.

GROUP ART UNIT: 1723

EXAMINER: not assigned yet

Sheet APR 15 2004

of 8

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials#	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD- YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
		AU	B-18629/92		Jay	10/8/92	
		CA	2316012	A1	Kurita Water Industries Ltd., JP	11/02/01	
		CN	1044411A		Shanghai Synthetic Resin Institute	8/8/90	Y
		DE	44 18 812	A1	Forschungszentrum Julich GmbH	12/7/95	N
		DE	1 201 055		VEB Farbenfabrik Wolfen	9/16/65	N
		DE	199 42 347	A1	Dechema Deutsche Gesellschaft für Chemisches Apparatewesen	3/8/2001	N
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		EP	0 870 533	A1	Asahi Glass Company Ltd.	10/14/98	
		EP	1 068 901	A2	Kurita Water Industries Ltd.	1/17/2001	
		EP	1075 868	A2	Kurita Water Industries Ltd.	2/14/01	
		EP	1 101 790	A1	Electropure, Inc.	5/23/01	
		EP	1 106 241	A1	Asahi Glass Company Ltd.	6/13/01	
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		GB	1448533		Mitsubishi Petrochemical Co., Ltd.	9/8/76	
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		JP	07-265865		Japan Organo Co. Ltd.	10/17/95	N
		JP	09-253643		Kurita Water Ind., Ltd.	09/30/97	N
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<b>FORM PTO-1449/A and B (Modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				APPLICATION NO.: 10/712,621		ATTY. DOCKET NO.: I0168-7076.19	
				FILING DATE: November 13, 2003		CONFIRMATION NO.: 2148	
				APPLICANT: Anil D. Jha et al.			
				GROUP ART UNIT: 1723		EXAMINER: not assigned yet	
Sheet	7	of	8				

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Examiner's Initials#	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				FILING DATE: November 13, 2003	CONFIRMATION NO.: 2148
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				GROUP ART UNIT: 1723	EXAMINER: not assigned yet
Sheet	8	of	8		

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#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_, filed \_\_, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).